

Enterprise Resource Planning

Option for California?

Overview

- 1990's – Corporate America reverses PC revolution
 - Hidden support costs/inefficiencies
 - Increased security threats
 - Data uniformity & integrity problems
 - Poor accountability
- PREMISE: California should pursue enterprise solutions to be effective, save money, and improve accountability in IT
- State IT Strategic Plan consistent with this
- My focus: Enterprise Resource Planning (ERP)

Governments Adopting ERP

- States of Pennsylvania, LA, ARK
- Government of Canada
- Counties of Santa Clara, Sacramento, and San Diego
- Cities of San Diego and Richmond
- Sacramento RTD
- SMUD
- AOC, CALPERS, & DWR – among few State implementers

Major DWR Programs

- State Water Project (next slide)
- flood management/levee maintenance
- dam safety
- local assistance grant programs
- managing 59 electric power contracts worth \$43 billion & \$11.3 billion revenue bonds.
- Annual operating budget of over \$1 billion; 2,500 employees.

California State Water Project

- **647 miles of aqueduct**
- **Water Supply Facilities**

- 14 dams and reservoirs
- 21 pumping plants w/153 units
- 10.6 BkWh power consumption*

(#1 power consumer in California)

- **Power Generation**

- 12 generating plants w/40 units
- 6.6 BkWh power production*

(#4 public power producer in California)

* Power production/consumption in 2000



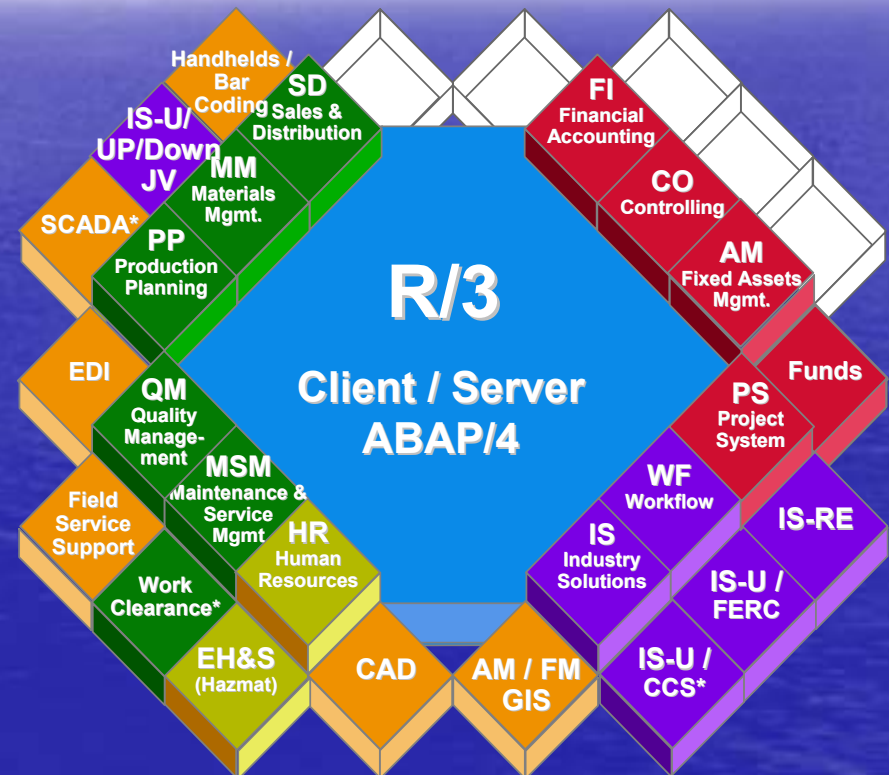
DWR Enterprise Systems

- Network (Wide-Area, Local-Area, SCADA)
- Project Management Office
- Full service Help Desk
- Exchange messaging system w/Active Directory
- Security and virus protection
- IT asset inventory
- ERP – SAP

ERP Uses and Samples

DWR SAP Modules

- HR Human Resources
- ESS Managers' Desktop
- AM Asset Management
- CO Controlling
- FI Finance
- FM Funds Management
- MM Materials Management
- PM Plant Maintenance
- PP Production Planning
- PS Project Systems
- CARA Water Project Cost Allocation
- BW Business Information Warehouse
- GM Grants Management (Grantor and Grantee)
- Work Clearance Management
- Impress Project Management Bolt-on



Government

Community

Business

Information

Arts & Leisure

Public Safety

Media

Home

The City of Pride & Purpose Richmond, California

Online Service Notification

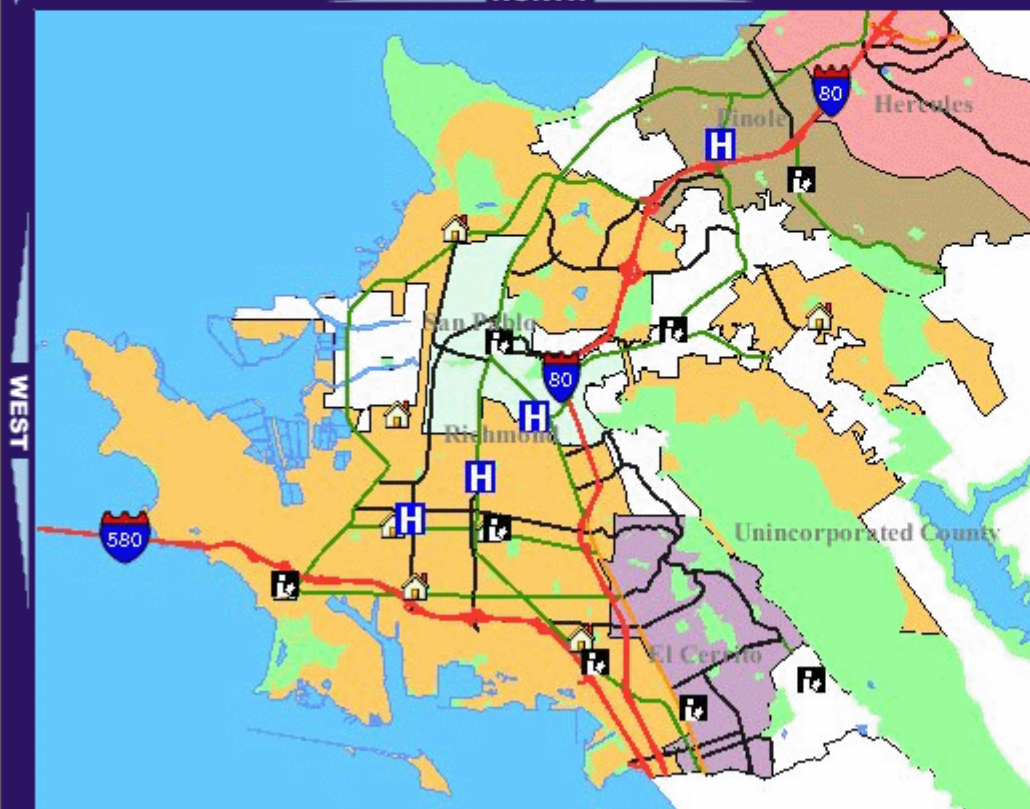
Zoom In Zoom Out Pan Identify Full Extent Legend Help

Notification

Report

Find

NORTH



SOUTH

Find Service Notification

Number GOFrom Date GO

(mm/dd/yyyy)

Problem GOfrom to Address GOStreet Cross Street GO[Notification of Last 30 Days](#)[Show All Open Notification](#)

Min/Max Reorder Point Report

SAP

List Edit Goto Settings System Help

Min/Max Reorderpoint Planning - Report

Program : ZPHA2_MM2AE01_MINMAX
System(Client): QAC(400) Min/Max Reorderpoint Planning - Report
Requestor :

Plant	SLoc	Material	Material description	Matl group	Bin	Curr. St.o	Reorder pt	Tot. Res.	UO
<input type="checkbox"/>	SL00	SL01	1893 BOLT,HEX,NC,GR-5,PLT,3/8" X 3/4"	CONST SUP	A-15-03-08	0	50	0.000	EA
<input type="checkbox"/>	SL00	SL01	1909 BOLT,HEX,NC,GR-5,PLT,5/16" X 2"	CONST SUP	A-15-02-07	99	100	0.000	EA
<input type="checkbox"/>	SL00	SL01	1910 BOLT,HEX,NC,GR-5,PLT,5/16" X 2-1/2"	CONST SUP	A-15-02-09	54	100	50.000	EA
<input type="checkbox"/>	SL00	SL01	1925 BOLT,HEX,NC,GR-5,PLT,5/8" X 1"	CONST SUP	A-27-07-01	90	100	0.000	EA
<input type="checkbox"/>	SL00	SL01	1929 BOLT,HEX,NC,GR-5,PLT,5/8" X 2-1/2"	CONST SUP	A-16-04-01	7	50	0.000	EA
<input type="checkbox"/>	SL00	SL01	1948 BOLT,HEX,NC,GR-5,PLT,7/16" X 3"	CONST SUP	A-15-04-02	0	25	50.000	EA
<input type="checkbox"/>	SL00	SL01	2016 BOLT,HEX,NC,GR-5,PLT,1/4" X 1/2"	CONST SUP	A-15-01-01	50	50	0.000	EA
<input type="checkbox"/>	SL00	SL01	2021 BOLT,HEX,NC,GR-5,PLT,1/4" X 2-1/2"	CONST SUP	A-15-06-04	277	400	100.000	EA
<input type="checkbox"/>	SL00	SL01	2025 BOLT,HEX,NC,GR-5,PLT,1/4" X 3/4"	CONST SUP	A-15-04-01	0	50	100.000	EA
<input type="checkbox"/>	SL00	SL01	2034 BOLT,HEX,NC,GR-5,PLT,1/4" X 6"	CONST SUP	A-15-07-04	392	400	0.000	EA
<input type="checkbox"/>	SL00	SL01	2038 BOLT,HEX,NC,GR-5,PLT,3/4" X 1"	CONST SUP	A-15-05-04	0	50	0.000	EA
<input type="checkbox"/>	SL00	SL01	2675 BOX,ALUM,WTRPROF,1 GANG,(3) 1/2" HOLES	ELECTRIC	A-14-04-05	0	12	36.000	EA
<input type="checkbox"/>	SL00	SL01	2676 BOX,ALUM,WTRPROF,1 GANG,(3) 3/4" HOLES	ELECTRIC	A-13-08-02	0	12	16.000	EA
<input type="checkbox"/>	SL00	SL01	2710 BOX,OUTLET,4" X 2-1/8"	ELECTRIC	A-11-08-03	0	12	0.000	EA
<input type="checkbox"/>	SL00	SL01	2927 BROOM,CURB,#8-08-03107,6R101	JANITOR	B-	1	1	0.000	EA
<input type="checkbox"/>	SL00	SL01	2954 BRUSH,CARBON,GE ROTATING EXCITER,DWR 2R	ELECTRIC	A-66-04	0	50	104.000	EA
<input type="checkbox"/>	SL00	SL01	2957 BRUSH,CARBON,HELWIG #DWR 1	ELECTRIC	A-66-04	0	50	60.000	EA

SAPMSSY0 darkmoon INS

Infotype
Edit
Goto
Extras
System
Help

Overview Objects on Loan (Infotype 0040)

PersNo

511

CHRISTOPHER C NAVARRETE

Managerial

WWG E

Managerial BU01

Perm Full Time

DWR Position

0510-1393692

Choose

01/01/1800

to

12/31/9999

STy.

	Start date	End date	Obj...	STy.name	No.	Loan object number
	05/01/2001	12/31/9999	05	American Express Corpo	0	
	05/01/2001	12/31/9999	07	DGS Credit Card	0	81000 820
	12/17/2004	12/31/9999	09	Cellular Phone	1	HAGAD4372A0YZ
	05/01/2001	12/31/9999	09	Cellular Phone	0	
	05/01/2001	12/31/9999	11	Computer	0	
	05/01/2001	12/31/9999	15	Employee ID Card-emerg	0	
	05/01/2001	12/31/9999	17	Key Card	1	07675643 FP23099L
	05/01/2201	12/31/9999	18	Key(s)	0	
	05/01/2001	12/31/9999	20	Lap Top	0	
	04/01/2001	08/01/2002	21	Pager	1	0422261
	05/01/2001	12/31/9999	34	Palm Pilot	0	*IPAQ HANDHELD
	10/27/2003	12/31/9999	35	Other	1	916-425-3248

Pers.no.	Last name	First name	STy.	Description	Loan object number
00000511	NAVARRETE	CHRISTOPHER	20	Lap Top	110934
00000526	HESTER	DANIEL	20	Lap Top	
00000557	HIGGS	GERALDINE	20	Lap Top	
00000820	KWONG	JAMES	20	Lap Top	
00001391	FARMER	FRANK	20	Lap Top	0025391705
00001458	HOM	MICHAEL	20	Lap Top	
00001556	SANCHEZ	JOHN	20	Lap Top	
00001586	DAHLBERG	MONICA	20	Lap Top	
00001601	IMPENS	CHRISTOPHER	20	Lap Top	DWR #06341
00001976	TOPPER	JUDITH	20	Lap Top	
00002266	CHAN	PETER	20	Lap Top	
00002303	LUONG	DANNY	20	Lap Top	
00002322	MURILLO	RAMON	20	Lap Top	06321 81000 SN 7BL4F21 06323 0017205802
00002398	HUEY	DIANE	20	Lap Top	
00002419	NG	MURRAY	20	Lap Top	
00002790	BRAUER	CYNTHIA	20	Lap Top	
00002831	TU	DAT	20	Lap Top	0025386523
00003593	HUANG	MENG	20	Lap Top	
00003985	JARUMAY	ROBERT	20	Lap Top	
00004067	WOLF	KENNETH	20	Lap Top	
00004621	COLE	KAREN	20	Lap Top	0023644909
00005135	SHIGAKI	WARD	20	Lap Top	
00005293	AGUIAR	JOSEPH	20	Lap Top	

Web Report - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print W Address http://sapessprd.water.ca.gov/scripts/wgate/ZPZTRN/!STATUS=http%3a%2f%2fsapessprd%2ewater%2eca%2egov%2fscripts%2fwgate%2fpzn Go Links

ESS Employee Self-Service

Back Menu

Training History

Name: **BEN WILLIAMS**

Personnel number: **4667**

Attendee	BEN WILLIAMS						
Personnel Number	00004667						
Organizational Unit	0500						
Selection Period	01/01/1900 - 03/23/2005						

Business Event	Course Code	Beg Date	Days	Hours	Cat	Sub
EXECUTIVE LEADERSHIP FORUM		01/16/2001	1	4.00		
SAP/MICROSOFT CONGRESS		01/24/2001	2	16.00		
DEFENSIVE DRIVER TRAINING		02/22/2001	1	4.00		
SAP0 FM101 Budget Workshop-ISS	E50007926	02/28/2001	2	15.00		
SAPPHIRE 2001 CONFERENCE		06/12/2001	4	32.00		
IT Outlook/Exchange Computer B	E50012539	10/01/2001	1	8.00		
RESPECT/PROFESSIONALISM IN THE		03/27/2002	1	3.50		
SAP0 FM104 PASO Budget & Cost	E50018674	09/25/2002	1	8.50		
CC Management Off Site	E50018593	01/08/2003	0	0.00		
LS ETHICS ORIENT. FOR ST OFFIC	50006330	02/23/2003	1	2.00	JR	
SAPPHIRE 2003 CONFERENCE		06/15/2003	5	40.00		
APPLIED PROJECT MANAGEMENT		06/23/2003	3	24.00		
HS Workplace Safety Training	E50019836	09/22/2003	1	2.00		
EP SEMS - Executive Course	E50020462	12/04/2003	1	3.00		
CC Management Off Site	E50021535	01/06/2004	2	15.00		
PRIV 5-DAY PROJECT MANAGEMENT	50008333	03/29/2004	5	40.00	JR	
LS Sexual Harassment Prev/Mgr&	E50021303	05/17/2004	1	15.00		
SAP2B BW Reports	E50022587	11/01/2004	1	4.00		
LS ETHICS ORIENT. FOR ST OFFIC	50006330	11/22/2004	1	2.00	JR	
SAP2B BW Reports	E50022598	12/08/2004	1	4.00		
SAP0 FM101 Budget Workshop	E50023218	12/08/2004	1	8.00		
Skelly Officer Training	E50023385	02/25/2005	1	4.50		
Total			37	254.50		

Internet

Benefits of ERP

- More consistent cost and data information
- Employee & Manager Self Service
- On-line employee, position, and training information
- On-line, real-time reporting
- Role-based security
- Enterprise cost savings (duplication avoided)
- DWR Plant maintenance: **OA increased from 85% in 1995 to 93% in 2003**

Cost of Implementing ERP

- Staff – reduced as 6 major legacy business systems and dozens of minor systems are replaced
- Consulting – Essential, especially during start-up; can be phased down when operational
- Real savings are from business process improvements

Role of the CIO

- May be threatening— not typical IT
- Emphasize best business practices
- Insist upon full documentation
- Support training and change management
- Establish strong controls on process and methodology
- Know business owners and managers (see DWR SAP Migration Project staffing)

Is California Ready for ERP?

- Must be willing to learn and lead change
- Need new classifications for support of ERP
- Need strong leadership, including Legislature
- Must adopt BEST PRACTICES; not “California-knows-best”
- Change management must be top priority
- Leadership must start with State IT managers